EQKIT

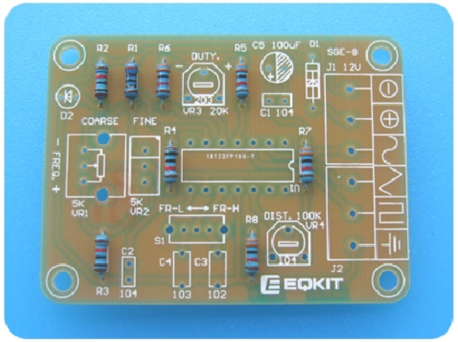
Tools you need:
①Iron (30W) ④Tweezers
②Solder wire ⑤Wire cutters
③Multimeter

Precautions:
①Check part values & quantities against part list
②Always meter resistor values before soldering
③Understand all part polarities and orientations

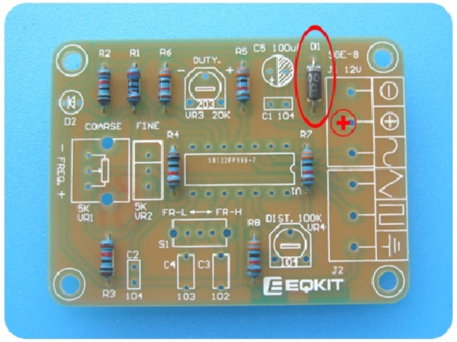
SGE-8 signal generator kit instructions

Rev. 1. 0 Sep 19,2016 Produce by yiqi

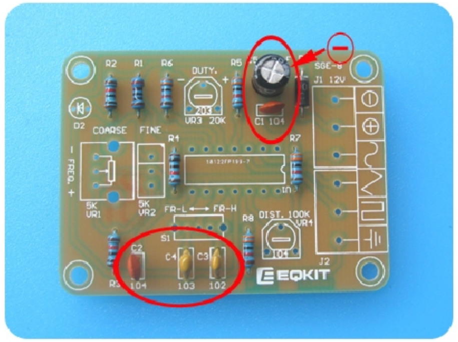
1. Resistors



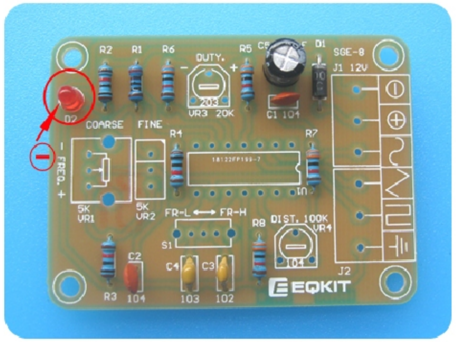
2. Diode (Attention direction)



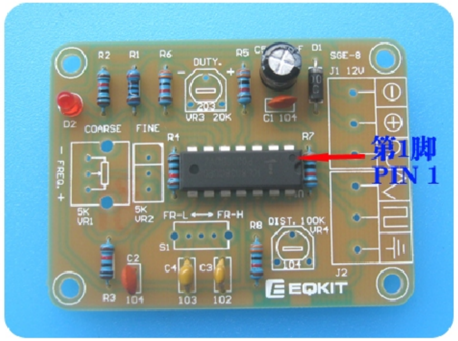
3. Capacitors (C5 Attention direction)



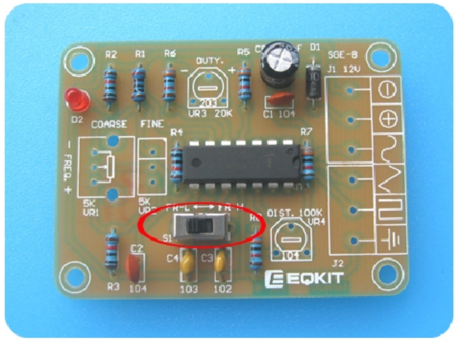
4. LED (Attention direction)



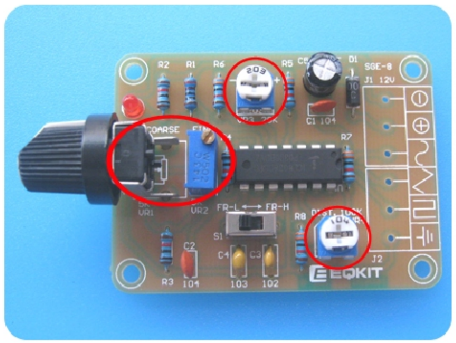
5. Chip (Attention direction)



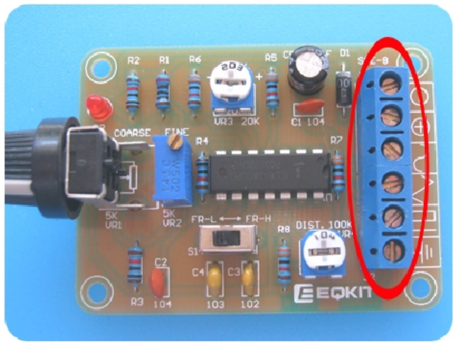
6. Switches



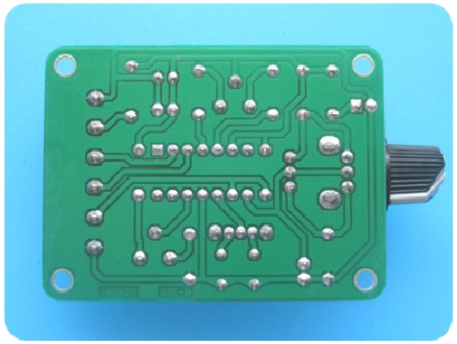
7. Potentiometer&Knob

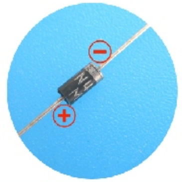


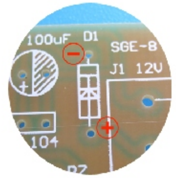
8. Terminals (Attention direction)

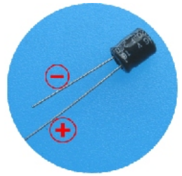


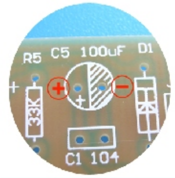
Finished creation







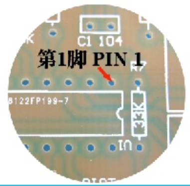






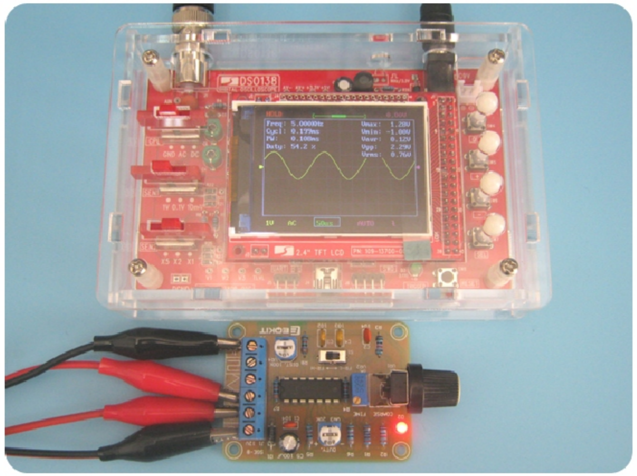






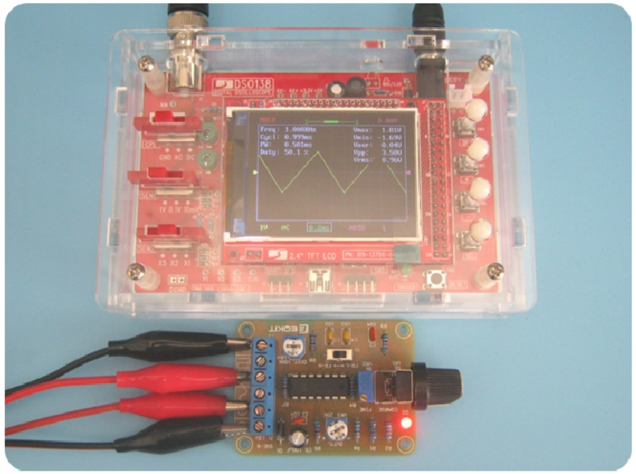
Component list:

Name	Model	Number	QTY
Res	200R	R1	1
	10K	R2 R3 R4	3
	33K	R5--R8	4
Cer Cap	104P	C1 C2	2
MCer Cap	102P	C4	1
	103P	C3	1
Ele Cap	220uF/16V	C5	1
Diode	1N4007	D1	1
LED	3mm red	D2	1
Poten	5K	VR1	1
	5K	VR2	1
	20K	VR3	1
	100K	VR4	1
Swith	1P2T	S1	1
Chip	ICL8038	U1	1
Terminal	301-3P	J1 J2	2
Knob	Black	1	1
PCB	58. 4*47. 3mm	1	1



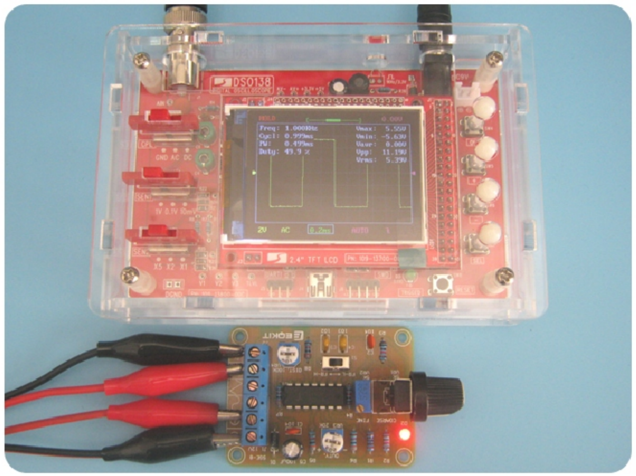
Sine wave

Freq range: 50Hz--7.5KHz
Vmax: 1.28V
Vmin: -1.00V
Vavr: 0.12V
Vpp: 2.29V
Vrms: 0.76V
Duty: 48%--56%



Triangle wave

Freq range: 50Hz--7.5KHz
Vmax: 1.81V
Vmin: -1.69V
Vavr: 0.04V
Vpp: 3.50V
Vrms: 0.96V
Duty: 49%--55%

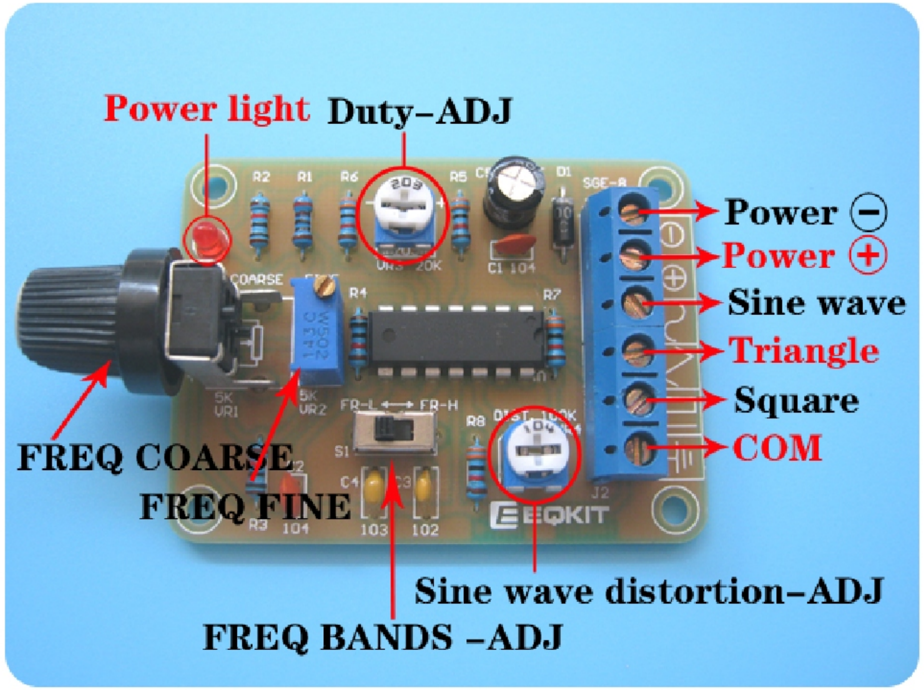


Square wave

Freq range: 50Hz--7.5KHz
Vmax: 5.55V
Vmin: 5.63V
Vavr: 0V
Vpp: 11.19V
Vrms: 5.39V
Duty: 27%--63%

All the data listed are typical values for your reference only.

How to Use: (Voltage=DC12V)



Schematic:

